82529
Issue 2

CE

ROYAL COZY FIRES

SUPER FERRONA 16 MKII

USERS (Pages 2-3)/ INSTALLATION (Pages 4-6) AND SERVICING INSTRUCTIONS

THIS CAT I_{2H} APPLIANCE IS FOR USE ON NATURAL GAS G20 AT A SUPPLY PRESSURE OF 20mbar IN GB and IE

HAND THESE INSTRUCTIONS TO THE USER

DESCRIPTION

The Super Ferrona 16 MKII is a decorative gas fire designed to fit into a conventional fire surround and fireplace. It should be fitted to a flue that conforms to a conventional Class I flue (i.e. a brick built chimney of 227 x 227mm (9x9ins) or 175mm (7ins) diameter lined or stone chimney with the fire back and fireplace components complying to BS1251. The appliance has a single aerated burner, the design of which produces two parallel ribbons of flame which run across the front of the fire bed, the rear ribbon of flame is ignited first and the front cross lights from it. A single control selects ignition (pilot only) and can be turned anticlockwise to select a high rate and then a reduced rate at maximum rotation. For extra safety, the tap is designed so that the gas cannot be allowed to reach the burner until the pilot is proven. A separate push button piezo igniter provides pilot ignition.

A flame supervision device (FSD) is fitted to ensure that should the oxy-pilot extinguish for any reason, (including turning off the appliance) the gas supply to the burner is cut off until the full lighting sequence is repeated. The oxy-pilot or O.D.S. will cause the appliance to 'shut off' in the event of continued spillage occurring under hazardous or blocked flue conditions.

The unit is secured to the hearth with two fixing screws to prevent stress on the gas inlet connection.

Two types of fire fronts and frets are recommended, as shown on page 8, they have perforated frets to allow air to be drawn into the coal bed for combustion and over the controls for cooling purposes. If other fronts and frets are to be used they must have a minimum open area in the fret of 20 square centimetres and 60 square centimetres in the front. See Fig 10.

A decorative brass trim is available as an optional extra to locate on the inner edges of the fireplace/surround opening, the trim has 50mm deep flanges to assist with fixing the trim in position.

IMPORTANT NOTES

The Super Ferrona 16 MKII is a decorative fuel effect appliance designed and manufactured to the requirements of the British Standards Institution BS 5258 Part 12: 1990 and is for use on Natural Gas only.

All gas appliance installations must be installed by a competent person in accordance with the current Gas Safety (Installation and Use) Regulations 1994 (as amended) or the rules in force and in accordance with the attached Installation Instructions, failure to do so could lead to prosecution.

The chimney flue (unless new) must be swept prior to installation. It should be checked annually for spillage (smoke test) when the appliance is serviced and that there is no excessive build up of soot.

The appliance has a naked flame, a fireguard to British Standard BS 6539 or BS 6778 should be used for the protection of your young children, the elderly and the infirm. Combustible materials should not be put on or left in the hearth, nor should the coal bed be used to burn rubbish or other materials.

Care must be taken on the selection of wall coverings within close proximity of the fire as some vinyl and embossed materials may become discoloured by convected heat. Soft furnishings must be kept clear from the radiant heat of the fire and from impinging the hearth area. The hearth must not be covered by any combustible materials such as carpet etc.

It is recommended that the appliance is serviced annually by a competent person and the flue checked for satisfactory clearance of products and that there is no excessive build up of soot.

The curing effect of heating the coals will cause an initial odour which, although not harmful, may require additional ventilation until the odour has disappeared. This appliance will run on Full for approximately 4.4 hours on one therm of gas.

This product uses fuel effect pieces, gaskets and insulation material containing Refractory Ceramic Fibre (RCF), which are man-made vitreous silicate fibres. **Excessive** exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract, consequently, it makes sense to take care when handling these articles to ensure that the release of dust is kept to a minimum

TO LIGHT THE APPLIANCE

1. Remove the fret (controls cover).
2. Press and turn the gas control until the indicator mark is opposite to IGN. Keep the control fully depressed. Press and release the ignition button. Check that the pilot flame has lit at all ports. Keep the gas control depressed for a further 20 seconds. Release the gas control and check the pilot remains alight.
3. Depress the gas control slightly and turn fully anticlockwise until the indicator mark is opposite the small flame symbol. The burner will now ignite from the pilot assembly and run at the low rate.
4. Depress the gas control slightly and turn clockwise until the indicator mark is opposite to the large flame symbol. The burner will now run at its maximum rate.
5. To turn the appliance 'off', return the control to the 'off' position.
6. If for any reason the fire cuts out, return the control knob to the `off' position and wait **3 minutes** before re-lighting.

REMOVAL OF DEBRIS or SOOT DEPOSIT

Allow the appliance to cool for two to three hours before removing all of the coals and ceramic blocks for cleaning purposes. Once all the ceramics are removed from the fire bed check that no debris is located in the burner slots (both front & rear). If any debris is present it may easily be removed by using a small piece of thin cardboard to ease out any foreign matter. Be sure to remove the cardboard after use. Cleaning should be carried out in a well-ventilated area or in the open air, by gently brushing with the pieces held away from your face so that you avoid inhaling the dust. We do not recommend the use of a normal domestic vacuum cleaner, which may blow dust back into the air.

SETTING UP THE COAL BED. (See the identification sheet on page 8)

Components

2 burner inserts.	16 Large Coals.
Coal support shelves (L&R hand).	4 Medium Coals.
Artificial coal front.	2 Triangular Coals

Place the left and right coal support shelves with the rebate on the underside, over the rear flange of the support channel. Place the two Tee shaped burner inserts into the channel between the front and rear ports of burner. Locate the fibre artificial coal front on the shelf above the fascia panel. Figures 4 & 5.

COAL LAYOUT

First Layer. Position 3 large coals with their rear edge on the burner inserts. Place 4 coals at the rear of the coal support shelf and lay 5 more across as a middle row. See fig. 6. Two triangular coals are placed one either side of the front row ensuring that the one on the right does not lay on the pilot assembly.

Second Layer. Position the remaining 4 large with the 4 medium coals in the positions shown in fig.7.

To obtain the best visual appearance it may be necessary to make slight adjustments to the position of the coals.

NOTE: **Additional coals must not be used.** If any of the coals or the coal bed becomes damaged, lost or broken, replacements must be obtained before the appliance is used.

VENTILATION

Purpose built ventilation is not required for this appliance in GB only. For Ireland (IE) ventilation is required with a minimal cross sectional area of 100 sq. cms and should be checked regularly to ensure that it is free from obstruction. It must be fitted in accordance with the rules in force.

CLEARANCE TO SHELVES

Minimum clearances to underside of a 150mm (6ins) combustible shelf from the top of the fire opening must be 228mm (9ins). Add 12.5mm (1/2in) to this clearance for every 25mm (1in) increased depth of shelf.

CLEARANCE TO SIDES

Minimum Clearance required to any combustible material to the side of the appliance must be 150mm (6in)

THE FOLLOWING SECTION LISTS THE INSTALLATION REQUIREMENTS AND REGULATIONS

The relevant Codes of Practice and British Standards are: -

BS 5440	Part 1	1990	The Building Regulations issued
BS 5440	Part 2	1989	by the Department of the Environment.
BS 6461	Part 1	1984	
BS 5871	Part 3	1991	The Building Standards (Scotland)
BS 6891		1988	(Consolidation) Regulations issued
BS 8303		1994	by the Scottish Development Department.
BS 1251		1987	

In particular: -

The fireplace and chimney or flue must comply with the requirements of BS 8303 1986 & BS6461 Part 1 1984.

The effective flue height must be a minimum of 3 metres and should be of 225mm x 225mm brick, stone or a lined chimney with a minimum diameter of 175mm.

Any permanent flue restriction must be removed and any variable dampers locked fully open or removed. The chimney flue must be swept prior to installation unless new and the gas installation must use rigid or semi-rigid tube.

A non-combustible hearth with a minimum thickness of 12.5mm and having a perimeter of 50mm above floor level is required to discourage placing carpets or combustible materials close to the hearth. The width must be a minimum of 150mm either side of the fireplace opening and a depth of 300mm from the front face of the opening.

Purpose built superimposed fire resisting hearths and back panels, specified as suitable by the manufacturer may be used. If hearths or back panels are not suitable for solid fuel, they should have been clearly marked, ‘Not suitable for solid fuels.’

TECHNICAL DATA

Height	295mm	Type of Gas	G20 (NG) only
Width	350mm	Max Heat Input (Gross)	6.6kW - 22520 Btu/h
Depth	260mm	Min Heat Input (Gross)	3.83kW -13070 Btu/h
Overall depth		Supply Setting pressure	20mbar +/- 1mbar (cold)
(Mach II) inc. F&F	310mm		
(JB)	330mm		

See fig 2. for the sizes of fireplace opening

Injector	Stereomatic 046.19.196.076
	Or Bray Cat 82/460
Gas valve	Isphording GH379 001 003 00A
	Or Thermaco 21018B
Pilot Assembly	SIT Oxy-pilot assembly NG9022
	Or Concentric ODS1

Note. None of the materials used in the manufacture of this appliance contain asbestos.

INSTALLING THE APPLIANCE

When an existing refractory fire back (chairbrick) is fitted, care must be taken to ensure that the depth of the opening is no less than 205mm from the front face of the surround to the front face of the chairbrick. This is to ensure that no luminous flame extends beyond the front face of the opening. See fig. 2.

Site the appliance as far back as possible whilst maintaining a central position in the opening, establish where the fixing holes are to be. A bracket is supplied in the fixing kit; this can be located either to the front or to the rear of the fascia panel. To the rear the fixing holes will probably coincide with a concrete base within the opening which will prevent drilling into a marble hearth etc, access to these two holes would be through two of the large holes above the fascia panel. Alternatively the bracket can be reversed to allow access to the front of the fascia panel see fig. 3. Having decided the preferred position, mark and drill suitable holes for the fixing plugs and screws provided and screw the appliance in position.

CONNECTING THE GAS SUPPLY

Determine where the gas supply is to be connected to the appliance. This may be made from the front of the unit from either the left or right side or, a concealed fitting from the rear of the inlet elbow.

TURN OFF ANY APPLIANCES THAT ARE FED BY THE METER AND ISOLATE THE GAS SUPPLY BY TURNING OFF AT THE METER.

If the supply is to be a concealed connection it would be advisable to route the supply to the left side of the unit taking into account the requirements of BS 6891:1988 dealing with enclosed pipes. This standard requires that when a gas pipe is fed through a wall, it should be enclosed in a gas tight sleeve to protect against failure caused by movement and shall be constructed to prevent passage of gas either between the pipe and sleeve or sleeve and wall.

Connections may be made from the front of the appliance from either the left or right in 8 mm diameter pipe, if a right hand connection is required the tube should be routed across the front of the fascia panel by rotating the inlet elbow to the required position. See fig 4. A suitable isolating cock or restrictor elbow should be fitted close to the appliance to facilitate servicing.

TO CHECK THE APPLIANCE SETTING PRESSURE.

The pressure test point at the inlet elbow enables verification of the inlet pressure at the appliance under operating conditions and can also be used to check the gas soundness of the connections to the appliance gas control.

SETTING UP THE COAL BED. (See the identification sheet on page 8)

Components

2 burner inserts.	16 Large Coals.
Coal support shelves (L&R hand).	4 Medium Coals.
Artificial coal front.	2 Triangular Coals

Place the left and right coal support shelves with the rebate on the underside, over the rear flange of the support channel. Place the two Tee shaped burner inserts into the channel between the front and rear ports of burner. Locate the fibre artificial coal front on the shelf above the fascia panel. Figures 4 & 5.

Note. If any of the coals or the coal bed becomes damaged, lost or broken, replacements must be obtained before the appliance is used.

COAL LAYOUT

First Layer. Position 3 large coals with their rear edge on the burner inserts. Place 4 coals at the rear of the coal support shelf and lay 5 more across as a middle row. See fig. 6. Two triangular coals are placed one either side of the front row ensuring that the one on the right does not lay on the pilot assembly.

Second Layer. Position the remaining 4 large with the 4 medium coals in the positions shown in fig.7.

To obtain the best visual appearance it may be necessary to make slight adjustments to the position of the coals.

NOTE: **Additional coals must not be used**

TO LIGHT THE APPLIANCE AND CHECK THE CORRECT OPERATION

1. Remove the fret (controls cover).
2. Press and turn the gas control until the indicator mark is opposite to IGN. Keep the control fully depressed.
3. After a suitable interval to ensure that the pipes are purged of air, press and release the ignition button. Check that the pilot flame has lit at all ports. Keep the gas control depressed for a further 20 seconds.
4. Release the gas control and check the pilot remains alight.
5. Depress the gas control slightly and turn fully anticlockwise until the indicator mark is opposite the small flame symbol. The burner will now ignite from the pilot assembly and run at the low rate.
6. Depress the gas control slightly and turn clockwise with the indicator mark opposite to the large flame symbol. The burner will now run at its maximum rate.
7. Turn the gas control to the OFF position, wait for 90 seconds, fully depress the gas control, turn to IGN position and release the control. Attempt to light the pilot with an already prepared match or taper. If the pilot lights the FSD is faulty.
8. Light the appliance and set to the large flame position, locate the front and fret in position and leave to warm up for 5 minutes. Check for satisfactory clearance of combustion products by inserting a lighted smoke match into the opening in the position shown in Fig.9, i.e. 100mm below the top of the opening and 10mm behind the front face. All the smoke must be clearly drawn into the flue. If this does not occur, allow a further 10 minutes and repeat the test. Should spillage still occur, examine the chimney for the fault and rectify. The test should be repeated if an extractor fan or fan powered flue appliance is fitted to the room. If there is a connected room with an extractor fan, the test should be repeated with all the connecting doors to that room opened.

Demonstrate the lighting and extinguishing procedures.

ADVISE THAT:

The curing effect of heating the coals will cause an initial odour, these are not harmful although additional ventilation (e.g. opened window) may be required.

Advise the customer that they should read their Users Instructions before operating the fire and always follow the advice in the section headed ‘Removal of Debris or Soot Deposits’.

The appliance is fitted with an Oxy-pilot to prevent the continued operation in the event of spillage occurring. If the fire shuts ‘OFF’ repeatedly the appliance must be turned off and not used until an expert is consulted.

When any debris or soot is to be cleaned from the appliance a vacuum cleaner may be used carefully. The appliance must be serviced annually by a competent person in accordance with these instructions and the appliance checked for spillage in accordance with the method detailed in these instructions.

Complete the section in the enclosed registration leaflet. Advise that any component part of this appliance be guaranteed against defective workmanship or faulty materials for a period of twelve months from the date of purchase.

Any such part will be replaced free of charge on receipt of the purchasers address at the cost of postage only, provided that:

a) It is accompanied by the registration section cut out of the booklet together with the original purchase receipt, which will be returned with the replacement part.

b) A competent person has carried out installation repairs or adjustments, such as the supplier’s representative or a CORGI registered installer.

MAINTENANCE AND SERVICING

GENERAL

A. REMOVAL OF DEBRIS or SOOT DEPOSIT

Allow the appliance to cool for two to three hours before removing all of the coals and ceramic blocks for cleaning purposes. Once all the ceramics are removed from the fire bed check that no debris is located in the burner slots (both front & rear). If any debris is present it may easily be removed by using a small piece of thin cardboard to ease out any foreign matter. Be sure to remove the cardboard after use. To ensure that the release of fibres from these RCF articles is kept to a minimum, during installation and servicing we recommend that you use a HEPA filtered vacuum to remove any dust and soot accumulated in and around the fire before and after working on the fire. When replacing these articles we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as RCF waste. This is not classified as "hazardous waste" and may be disposed of at a tipping site licensed for the disposal of industrial waste. Protective clothing is not required when handling these articles, but we recommend you follow the normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking. Any sooty deposit on the thermocouple probe can be cleaned off using a non-fluffy cloth.

*** DO NOT USE ABRASIVE MATERIALS ***

B. SERVICING COMPONENTS BELOW THE BURNER ASSEMBLY

Remove coals, coal supports, burner inserts and front simulated coal. To gain access to components below the burner assembly it has to be removed from the case by disconnecting the gas supply at the inlet elbow and unscrewing the two screws at the base of the fascia panel. Where the supply is fed from the right hand side across the front of the fire, it will be necessary to disconnect the supply from the isolation tap/elbow.

i) TO CLEAN OR REPLACE THE INJECTOR: Unscrew the compression nut connecting the gas supply to the elbow injector while supporting the injector. This is to prevent distortion of the framework, unscrew and remove the gas supply tube from the gas control valve, hold the injector lock nut with a spanner and rotate the injector. Replace in reverse order.

ii) TO REPLACE THE GAS CONTROL VALVE: Disconnect the three gas pipes and the thermocouple from the control. Pull off the knob and lay to one side. Undo the retaining nut at the front of the tap niting position to withdraw the control from the mounting bracket. Replace in reverse order.

iii) TO REPLACE THE PIEZO IGNITER: Pull off the HT lead from the rear of the igniter. Retain the metal fixing nut with one finger and rotate the body of the igniter to unscrew. Withdraw the igniter from the front. Replace in reverse order and reconnect the HT lead.

iv) TO CLEAN OR REPLACE THE OXY-PILOT ASSEMBLY (including electrode and thermocouple): Unscrew the self -tap screw securing the clamp bracket. Undo the supply tube nut at the gas connection to the pilot; withdraw the Oxy-pilot assembly. Clean off any lint or fluff taking care to avoid damage. The individual parts cannot be changed separately as the assembly is precision built. Reassemble in reverse order. It is advisable to check joints for leaks prior to refitting the burner unit into position.

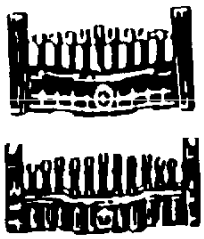
SHORT PARTS LIST

For spares contact the manufacturer at the address overleaf.

DESCRIPTION	CROSSLEE No	GC No
Piezo Igniter	40245	397 686
Control Knob	40232	170 014
Control Valve	41833	386 147
Oxy-Pilot Burner Assembly (SIT)	42313	
Main Injector Bray Cat 82/460	41669	379 871
Or (Stereomatic)	41670	
Coal Support Shelf	42889	
Front Coal mould	40481	170 248
Set of Coals	42893	

FIRE FRONTS AND FRETS

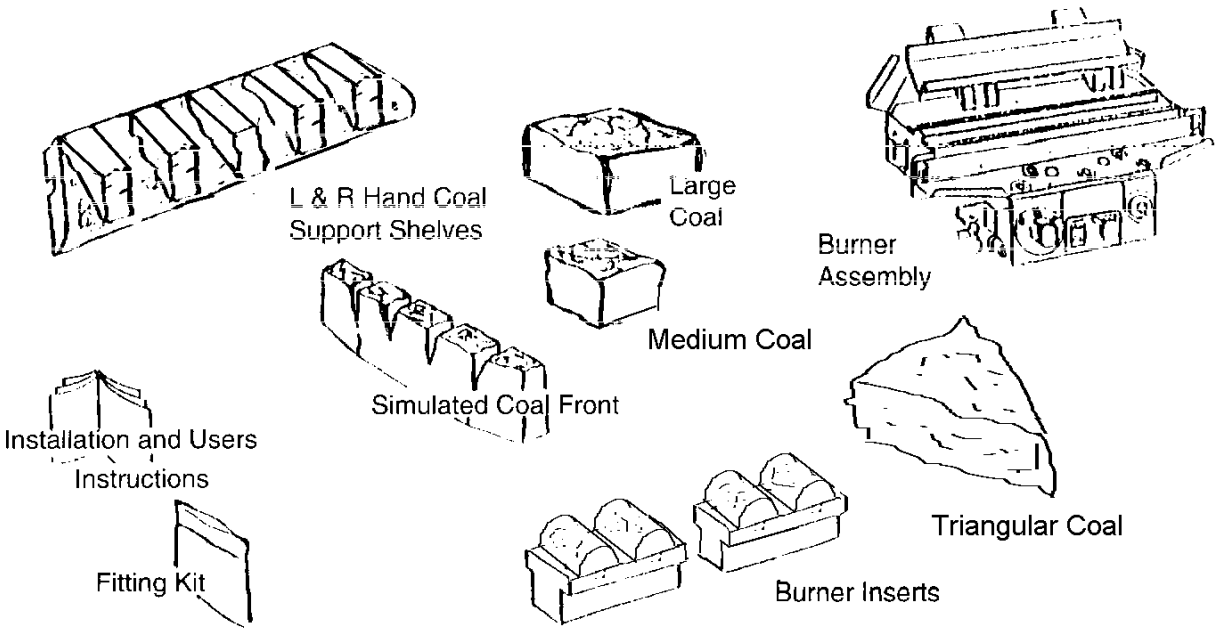
Make	*Colour*	*G. C. NO.*	*ILLUSTRATION*
MACH II	Black	32 183 26	
"	Brass	32 183 48	
J.B.	Black	32 183 38	



DECORATIVE BRASS TRIM

G.C. No. 32 183 31

IDENTIFICATION SHEET



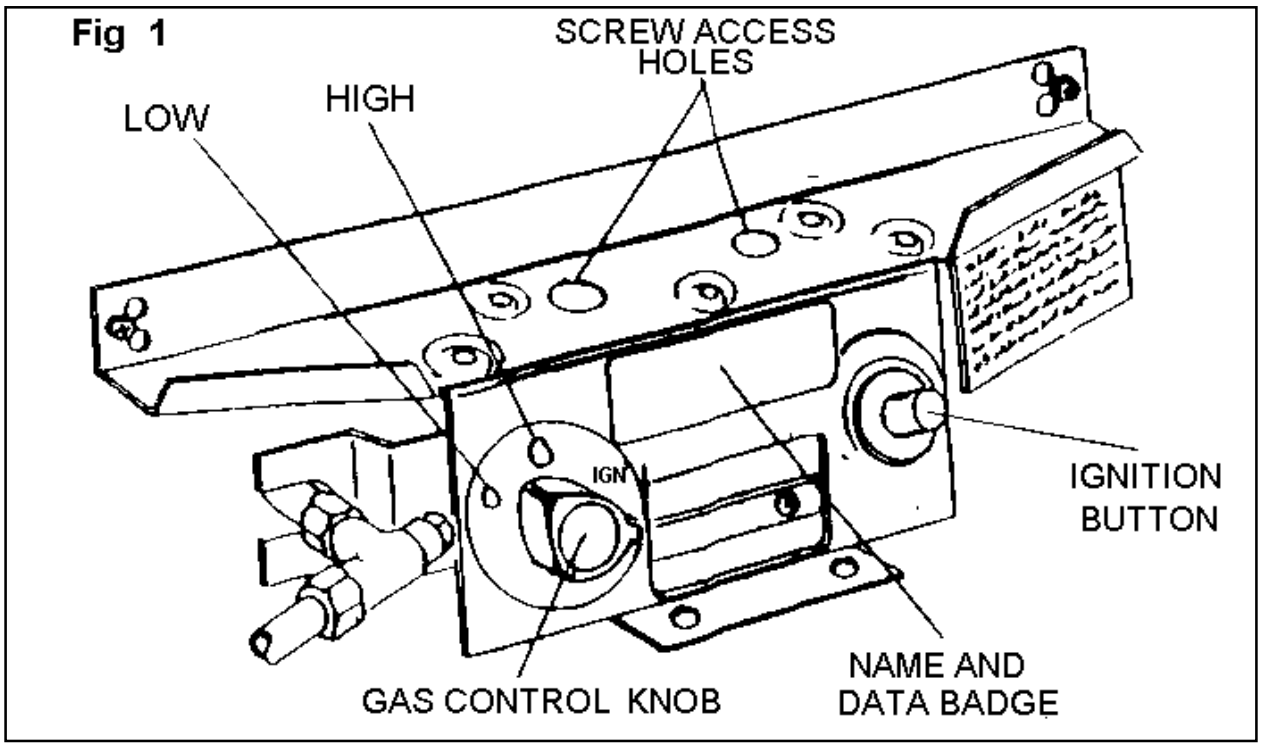


Fig 1
SCREW ACCESS HOLES
LOW
HIGH
IGN
IGNITION BUTTON
GAS CONTROL KNOB
NAME AND DATA BADGE

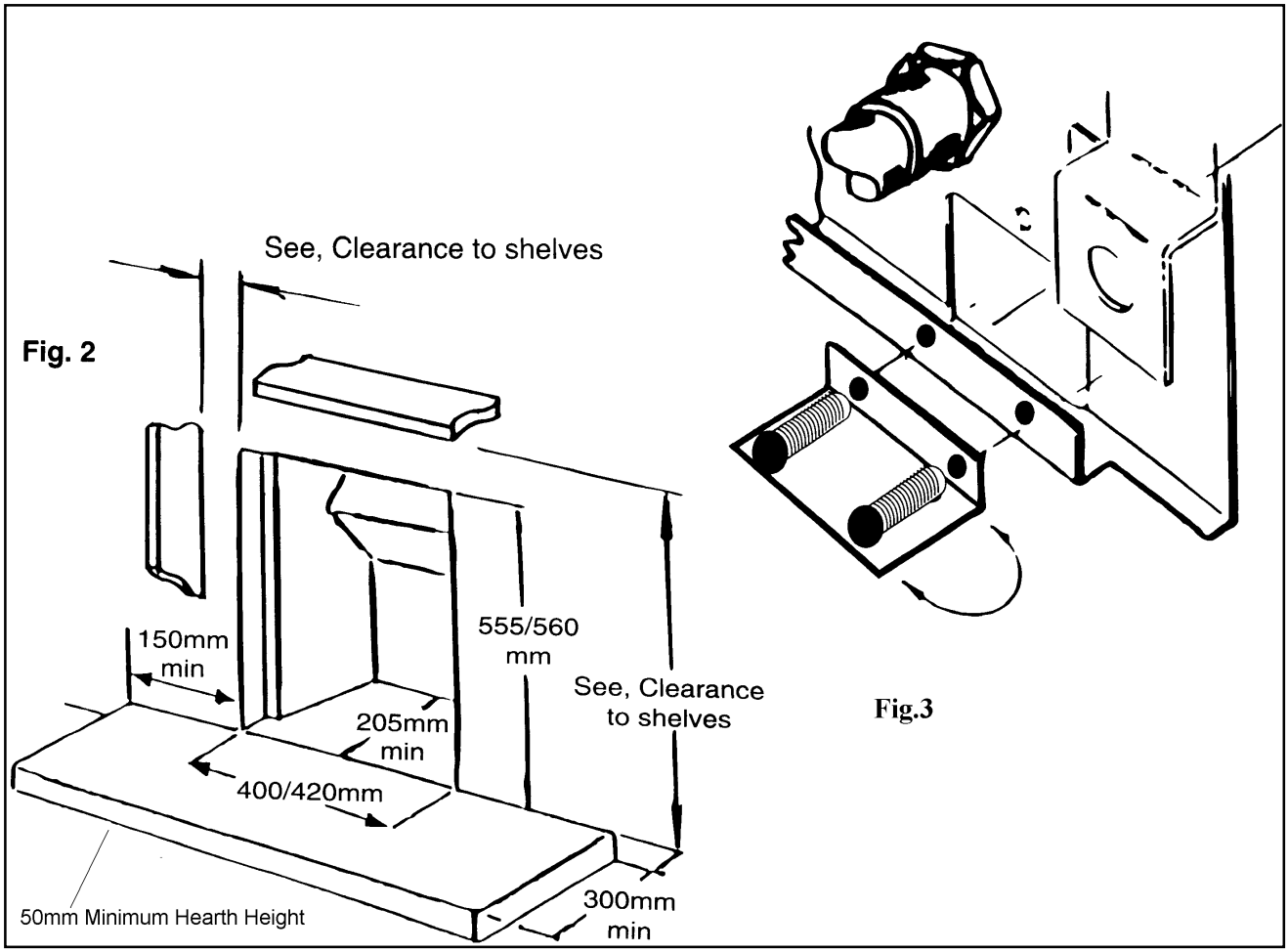


Fig. 2
See, Clearance to shelves
150mm min
555/560 mm
See, Clearance to shelves
205mm min
400/420mm
50mm Minimum Hearth Height
300mm min

Fig.3

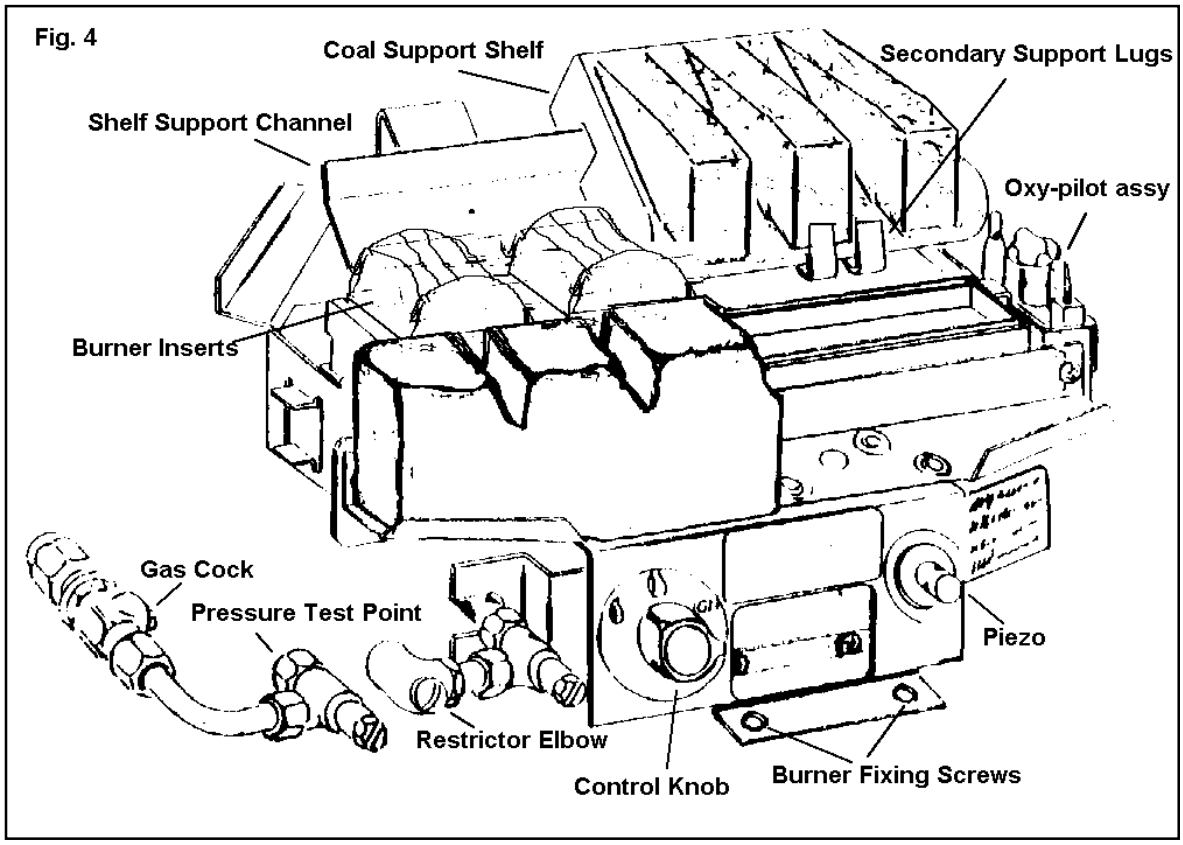


Fig. 4
Coal Support Shelf
Secondary Support Lugs
Shelf Support Channel
Oxy-pilot assy
Burner Inserts
Gas Cock
Pressure Test Point
Piezo
Restrictor Elbow
Control Knob
Burner Fixing Screws

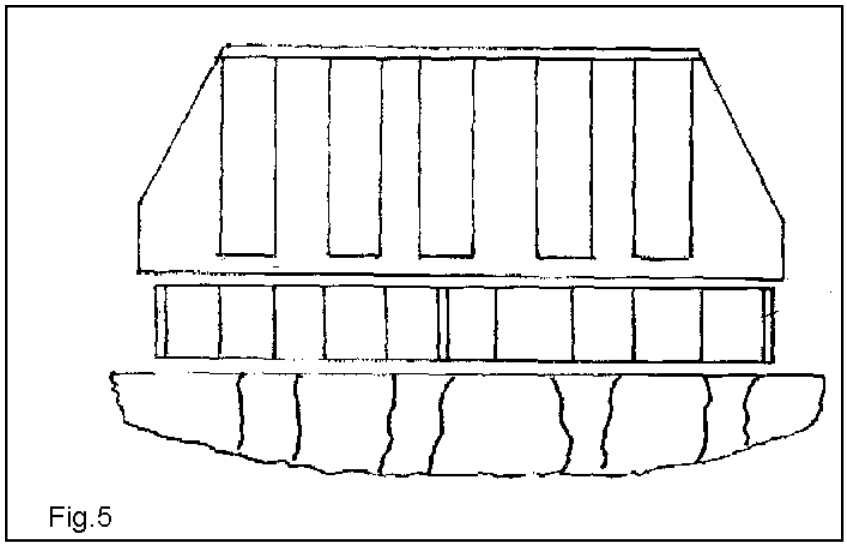
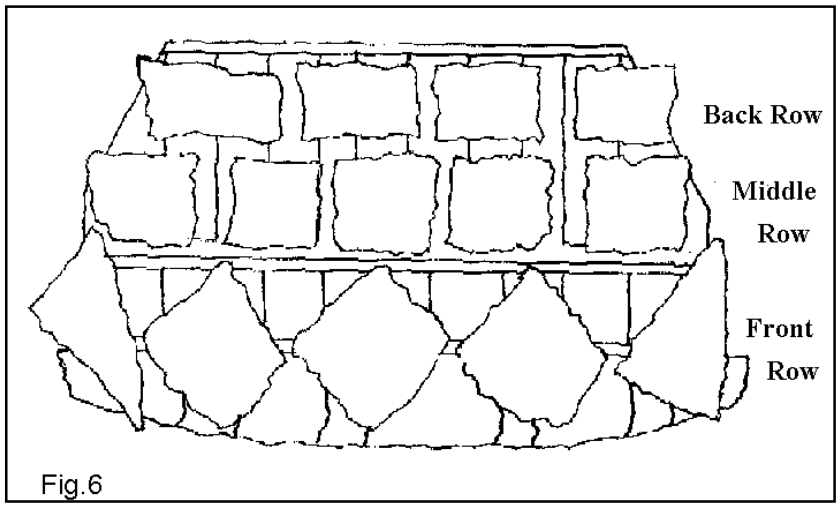


Fig.5


Back Row
Middle Row
Front Row
Fig.6

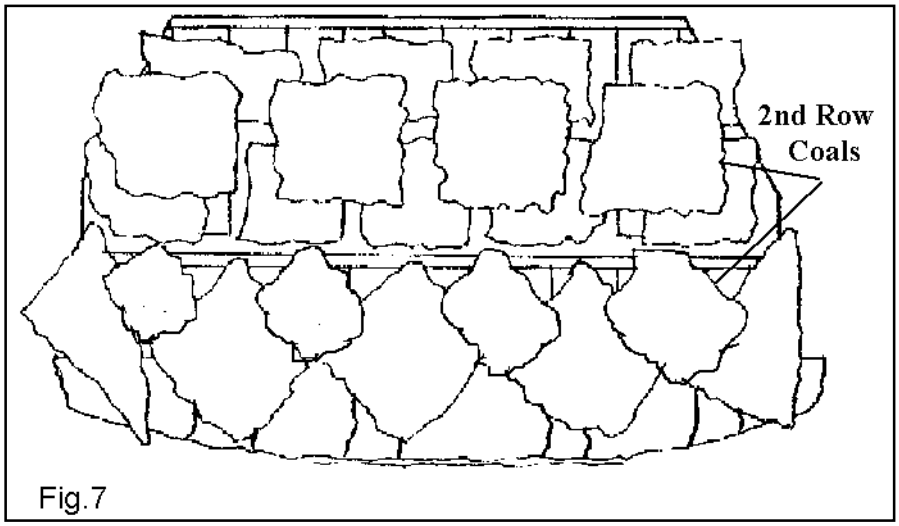


Fig.7

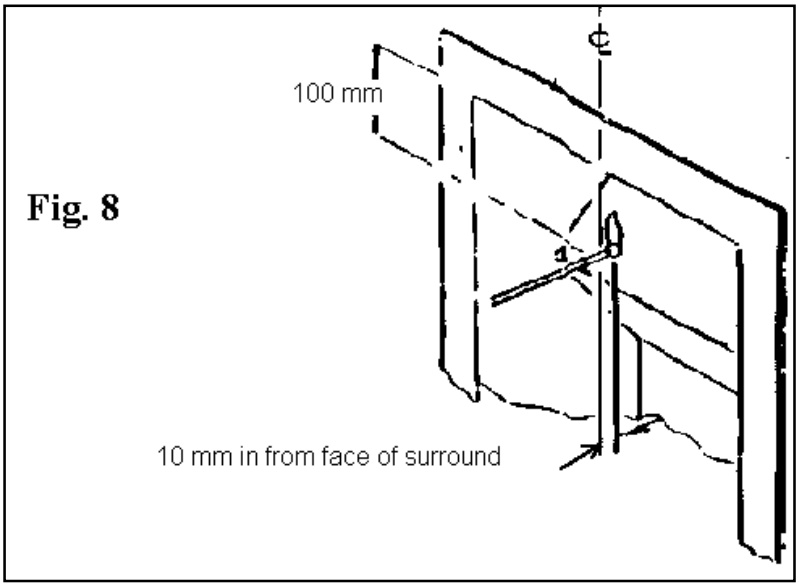


Fig. 8

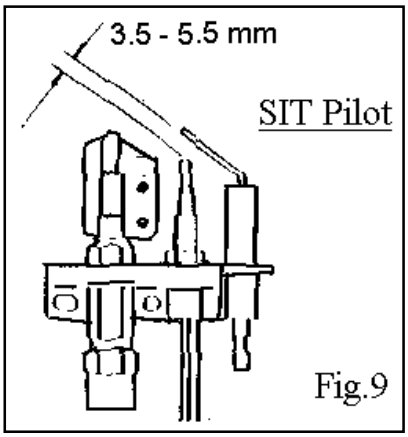
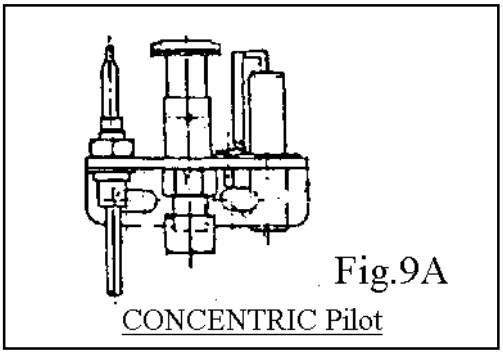
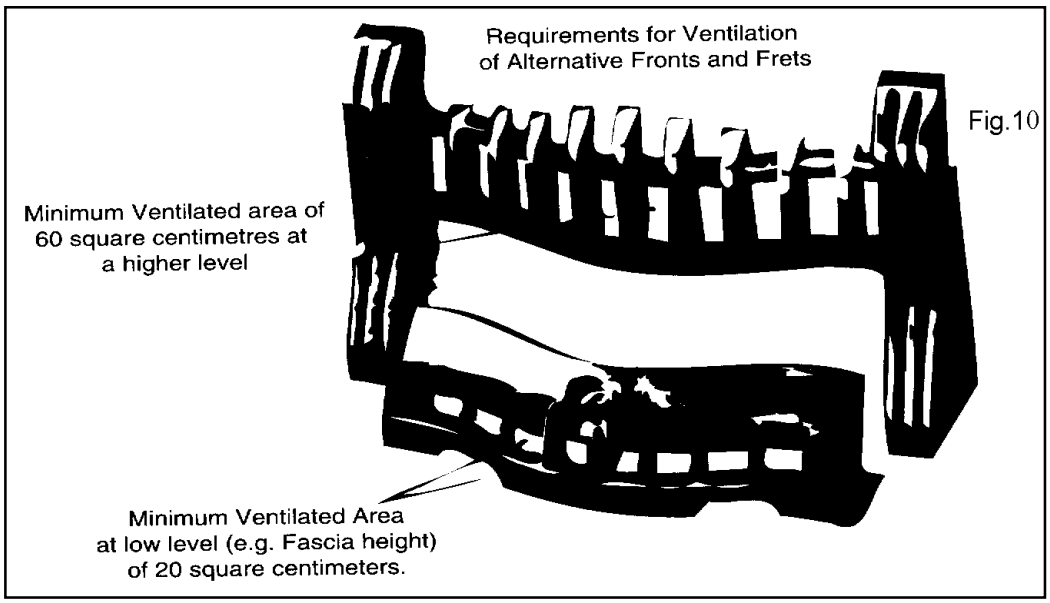


Fig.9





MAX HEAT INPUT (GROSS)

6.6 kW 22450 Btu/hr

Royal Cozyfires are manufactured by:

CROSSLEE plc
Aber Park Industrial Estate,
Aber Road, Flint, Flintshire. CH6 5EX
Spares Tel 01422 203963
Fax: 01422 204475
Service (GSA Ltd) 01703 516611
Customer Service 01422 200660
Fax 01422 206304
*Technical Help Line 0906 8633268
*Calls charged at 60p per minute